

(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/004953 A3

(51) International Patent Classification⁷: A61M 5/152, 5/168

(21) International Application Number: PCT/IB2004/002245

(22) International Filing Date: 9 July 2004 (09.07.2004)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data: MO2003A000201 11 July 2003 (11.07.2003) IT

(71) Applicant (for all designated States except US): H.S.-HOSPITAL SERVICE-SPA [IT/IT]; Via Naro, 81, I-00040 Pomezia (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PIROVANO, Marco [IT/IT]; Via Vittadini, 9, I-20146 Milano (IT). IMPROTA, Stefania [IT/IT]; Via Posidippo, 8, I-00125 Roma (IT).

(74) Agent: CRUGNOLA, Pietro; Luppi Crugnola Bergamini & Partners S.R.L., Viale Corassori, 54, I-41100 Modena (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

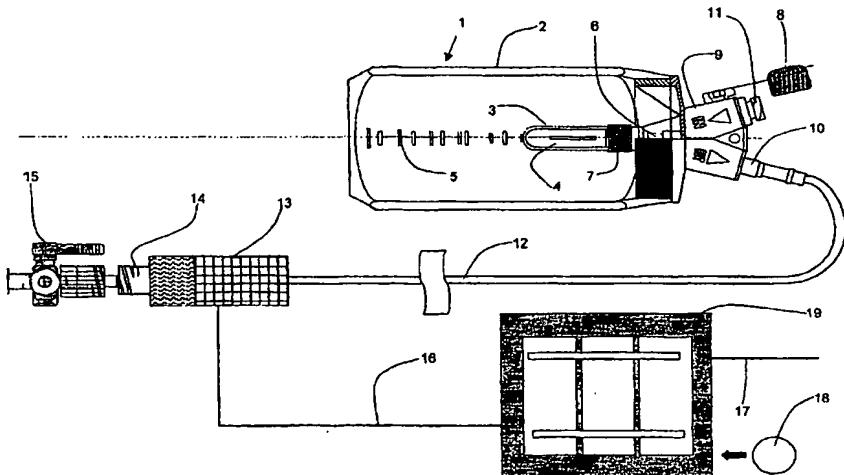
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,

[Continued on next page]

(54) Title: SYSTEM OF INFUSION OF PHARMACOLOGICAL SOLUTIONS



WO 2005/004953 A3

(57) Abstract: System for the infusion of pharmacological solutions comprising containing means (3) suitable for containing a pharmacological solution, pumping means (3) for generating a flow of said pharmacological solution from said containing means (3), characterised in that it furthermore comprises adjusting means (13) to vary said flow and command and control means (19) operationally associated with said adjusting means (13). Method for the infusion of a pharmacological solution in a patient, comprising generating a flow of said pharmacological solution from a container containing said pharmacological solution, sending said flow to the catheter means insertable in the body of said patient, adjusting said flow by adjusting means (13) actuated by command and control means (19), the method furthermore comprises programming said flow and infusion times by programming means operationally connected to said command and control means (19).



EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designation US*

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
10 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.